Desk Copy President Smith

MIDDLESEX UNIVERSITY

SCHOOL OF VETERINARY MEDICINE

CATALOGUE

1941-1942

WALTHAM MASSACHUSETTS

STATEMENT

The Annual Catalogue, published well in advance of the school year to which it applies, contains a condensed record of the Faculty of the School of Veterinary Medicine; announcements relative to the calendar, requirements for admission and graduation, fees, examinations, and rules for student conduct; and information concerning the Preveterinary Course.

The provisions of this catalogue are not intended to be taken as a basis for the contractual relationship arising between the University and its students. The purpose of the Officers and Trustees is continuously to improve the methods and standards of instruction, and they reserve to themselves the right and responsibility of altering at any time the curriculum, requirements, teaching personnel, fees, and rules, as circumstances may require, or as they may deem to be the best advantage of the University.

MIDDLESEX UNIVERSITY

Catalogue

of the

School of Veterinary Medicine

and of the

Preveterinary Course

1941-1942

WALTHAM MASSACHUSETTS

University Calendar

1941

July 7	Monday	Summer session begins.
Aug. 16	Saturday	Summer session ends.

Sept. 15 to 20	Monday to Saturday	First installment of tuition due.
Sept. 22 to 27	Monday to Saturday	Examinations for the removal of conditions.
Sept. 25	Thursday	Fall Session opens.
Oct. 13	Monday	Columbus Day. A holiday.
Nov. 11	Tuesday	Armistice Day. A holiday.
Nov. 26 to 30	Wednesday to Sunday	Thanksgiving Recess.
Dec. 22 to 27	Monday to Saturday	Second installment of tuition due.
Dec. 22	Monday	Christmas Vacation begins.

1942

Jan. 5	Monday	Classes resumed.
Feb. 9	Monday	Second Semester begins.
Feb. 23	Monday	Washington's Birthday. A holiday.
Mar. 23 to 28	Monday to Saturday	Third installment of tuition due.
Mar. 23 to 29	Monday to Sunday	Spring Recess
Mar. 31	Monday	Classes resumed.
April 20	Monday	Patriots' Day. A holiday.
May 30	Saturday	Memorial Day. A holiday.
June 13	Saturday	Seniors' Class Day.
June 14	Sunday	Baccalaureate Service.
June 15	Monday	Commencement Exercises.

The Trustees of Middlesex University

President
C. Ruggles Smith

First Vice President
Frank L. Whipple

Second Vice President
John M. Russell

Treasurer
John Hall Smith

Secretary
Horatio S. Card

Recorder
Mabel B. Smith

Arthur A. Hansen	Waltham
Howard Charles Gale	Beverly
Joseph I. Cheskis	Boston
Harry R. Bolan	Cambridge
Henry F. Beal	Waltham
Hugh Wallace Smith	Melrose
T. Rutherford Edwards	Quincy
Royce W. Gilbert	Newton
Rose F. Jannini	Winthrop
Thomas J. Smith	Boston

Officers of Administration

President
C. Ruggles Smith, A.B., A.M., Litt.B., LL.B.

Dean
Edgar A. Crossman, M.D.V.

Assistant to the Dean
Harris W. Hantman, B.S., D.V.M.

Dean of the Preveterinary Faculty
Joseph I. Cheskis, Ph.D.

Registrar
Harold M. Kaplan, Ph.D.

Counsel
John M. Russell, A.B., LL.B.

Director of Buildings and Campus
Mabel B. Smith

Assistant Treasurer and Bursar
Marjorie K. Faxon

Librarian
Dorothy McLaughlin

Assistant to the Registrar
Julia O'Leary

Secretary to the Dean
Frances McEnaney

The Faculty

The list of the faculty, comprising the professors, associate professors, and instructors, in the school of Veterinary Medicine, and in the preveterinary department of the Junior College, includes those engaged in teaching during the session 1940-1941, and those who have been appointed up to January 1, 1941, for the session 1941-1942. The complete list of faculty appointments for the 1941-1942 school year will not be available until September, 1941. It is anticipated that a substantial number of important additions to the faculty roster will be announced during the intervening period. The faculty list is not complete so far as it concerns the fourth year of the veterinary course, since at the time of publication only the first three classes are in session in this newly established department of the University.

EDGAR A. CROSSMAN, *Dean* . *Veterinary Medicine*
M.D.V., Harvard University

ALBERTO ASCOLI . . . *Bacteriology, Immunology*
M.D., University of Vienna; M.D., University of Pavia

TIMOTHY P. WHITE . . . *Anatomy, Histology*
D.V.M., Kansas City Veterinary College

LEO WEISZ . . . . *Surgery, Obstetrics*
D.V.M., V.S., University of Vienna

MARCUS M. MASON . . . *Pathology*
B.S., D.V.M., M.S., Cornell University

HARRIS W. HANTMAN . . *Parasitology*
B.S., D.V.M., Kansas State College

RUDOLPH SIBLEY . . . *Clinical Veterinary Medicine*
V.S., Ontario Veterinary College

CORNELIUS F. SULLIVAN . . *Clinical Veterinary Medicine*
V.M.D., University of Pennsylvania

TERRENCE J. BURKE . . . *Clinical Veterinary Surgery*
V.S., Ontario Veterinary College;
B.V.Sc., University of Toronto

HAROLD M. KAPLAN . . . *Physiology*
A.B., Dartmouth College; A.M., PH.D., Harvard University

DAVID LYMAN DAVIDSON . . *Biochemistry*
B.S., M.S., PH.D., Brown University

Karl Singer . . . . *Physiology*
M.D., University of Vienna

Hans Elias . . . . *Histology, Biology*
Ph.D., University of Giessen

Joseph I. Cheskis . . . *French*
A.B., University of Paris; A.M., Ph.D., Harvard University

William Northrop Morse . *English*
A.B., Amherst College; A.M., Harvard University

George Demeter . . . *Government*
A.B., Harvard University; LL.B., Boston University

Stella Sutherland . . *History, English*
A.B., Queen's University; A.M., University of Chicago
Ph.D., University of Illinois

Solomon H. Gordon . . *Chemistry*
B.S., Massachusetts State College; Ed.M., Boston University

Florence Alexander . . *French*
A.B., Brooklyn College; A.M., University of Michigan

Marvin Kniese . . . *Animal Husbandry*
B.S., Colorado State College

Herman Feshbach . . . *Physics, Mathematics*
B.S., College of the City of New York

Ptolomey Adams . . . *Biology*
B.S., University of New Hampshire

Assistants and Technicians

Joseph Beck . . . . *Pharmacology*
Ph.G., Long Island University

Anneliese Elias . . . *Histology*

Estelle Deacon . . . *Embryology*

Janet Deacon . . . . *Pathology*

Doris Coult . . . . *Bacteriology*

Florence M. Land . . . *Histology*

Ruth N. Moor . . . *Parasitology*

Organization and Objectives

The School of Veterinary Medicine was chartered by the legislature of the Commonwealth of Massachusetts as a department of Middlesex University, with authority to confer the degree of Doctor of Veterinary Medicine. The School aims to provide a thorough, systematic education in all the basic and applied sciences of veterinary medicine, and to train veterinarians so that they may adequately deal with the investigation, prevention, and cure of animal diseases.

The Trustees of Middlesex University undertook the establishment of a veterinary department for two reasons,—because they realized that there was great need for such a school in New England, since the opportunity for prospective students from this section to secure admission to veterinary schools elsewhere was extremely limited; and because the University was ideally located and equipped to develop a veterinary school on the spacious campus that already accommodated the College of Arts and Sciences and the School of Medicine.

Location, Buildings, and Facilities

The Veterinary School and Animal Hospital, a building designed and erected exclusively for the use of the School of Veterinary Medicine on the 100-acre Waltham campus of Middlesex University, was dedicated by Dean Crossman in October, 1940, before an impressive gathering of veterinarians, state and municipal officials, educators, and students.

The new Veterinary Building is modern in architectural design and is constructed of brick and reinforced concrete. Three stories high, it is rectangular in shape, covering a ground area of over 10,000 square feet, and a wide white-walled interior court assures excellent lighting for all the laboratories.

The front or south wing of the Veterinary Building contains administration offices and students' locker rooms on the ground floor, the junior and senior classrooms on the first floor, and the freshman and sophomore classrooms on the second floor. The classrooms are large, well lighted, and air-conditioned; and are each equipped with 80 fixed seats with movable arms for note-taking, and with blackboards, charts, and an instructor's platform,

the leveled rail of which contains a seating chart showing the place assigned each student.

The west wing houses two of the large teaching laboratories, each with an area of 1900 square feet. The Anatomy Laboratory is equipped with mounted skeletons of domestic animals, a comprehensive collection of animal bones, dissecting tables of varying sizes, an overhead crane for the handling of large carcasses, and underfloor tanks for the storage of material. Adjacent to the anatomy laboratory is a smaller room for prosection and the preparation of materials for dissection, and an office for the teaching staff of the department.

The third floor of the west wing is occupied by the Bacteriology-Pathology Laboratory, equipped with autoclaves, incubators, refrigerators, centrifuges, microtomes, a large collection of strains of micro-organisms, pathological slides, gross specimens, and all the necessary apparatus for instruction and research. Long benches for students working with microscopes run along the sides of the laboratory, which has connections for electricity, gas, and water. The separate research laboratories and offices of the departments are adjoining this laboratory.

The departments of Chemistry, Physiology, and Histology occupy the east wing of the building. The Chemistry Laboratory on the third floor contains 128 student lockers, completely equipped with glassware, and other apparatus. The benches are supplied with standard reagents, gas and water, and a sink extends between each row of benches. This laboratory is used one semester for organic and the second for biological chemistry, and next to it is the chemistry storeroom and the departmental office and research laboratory.

The Histology Laboratory uses the same type of equipment as has already been described in the Pathology Laboratory for the preparation of slides, and contains wide benches along the window, where the students use their microscopes and make their drawings. During the second semester this teaching laboratory is available to the Physiology Department and is equipped with kymographs, manometers, basal matabolism machinery, and the usual apparatus for this study.

The ground floor of the north wing houses the Animal Hospital, and contains the operating room and stalls for the treatment of the larger domestic animals. There is a separate building for the

small-animal hospital and clinic. The operating room is equipped with an electrically-driven, hydrostatic-lift, operating table, that can accommodate large animals and convey them from a vertical to a horizontal position, suitably restraining them pending the administration of an anaesthetic. There is no communication between the hospital quarters and those parts of the building devoted to preclinical teaching.

The second and third floors of the north wing contain research and private laboratories, offices of department-heads, and the veterinary library. Slides, media, cultures, and other materials for use in the teaching laboratories are prepared in these smaller laboratories by assistants and technicians attached to the departmental staffs.

Not far from the main Veterinary Building is the Small-Animal Hospital and Clinic, a long one-story stucco and brick structure, built on an arc, and covered with a high-pitched overhanging roof of green asbestos shingles. The office and reception room of the clinic occupy a circular room with a conical roof, at the center of the inner arc of the building, facing one of the campus roadways across a formal flowerbed. Dwarf evergreens spaced between the sixteen windows add to the pleasing aspect of the approach to the clinic. The rear or outer arc of the building is at the top of a long slope towards the street, and opens into exercise yards for convalescent animals. The interior contains operating and treatment rooms and a large area for the special cages in which the smaller animals are confined during their stay at the hospital.

The buildings of the department of animal husbandry and the University's agricultural developments are situated in convenient proximity to the Veterinary Building. The dairy barns, three red-brick two-story structures, flanked by tall silos and a water tower, and enclosing a corral with a serpentine brick wall on its fourth side, house the University's herd of forty registered cattle. Each of the four breeds, Jersey, Guernsey, Ayrshire and Holstein, is represented by a bull and about ten cows. A handsome English fieldstone stable, two-stories in height, shelters the farm and riding horses, and other more unusual members of the University's animal collection. Other related structures include the piggery, the sheep and goat sheds, the poultry-yards, the aviary, many kennels, and a large maintenance building that has accommodations for many of the laboratory animals.

The Department of Conservation, Division of Fisheries and

Game, of Massachusetts has issued to Middlesex University a license to maintain wild animals and game birds, and there is now being established on the campus a collection of non-domestic animals, that already includes at least one exotic species, a South American kinkajou.

The facilities of the University Library, with its collection of scientific and cultural texts, and its files of current scientific periodicals, are available to the veterinary students. The museum collections of the University include an extensive exhibit of material in the field of anatomy and vertebrate zoology, which are used for the purpose of instruction in the School of Veterinary Medicine. A separate veterinary library has been established, and an inclusive exhibit of anatomical and pathological specimens, which are housed in the new Veterinary Building.

Student Accommodations

The first student housing unit on the Middlesex University campus, a group of ten colonial bungalows, was completed in 1940. Each student cottage contains four rooms and a bath with shower, and accommodates four students. There are two single bedrooms, one double bedroom, and a study or living room for the joint use of the four occupants.

The bungalows are Cape Cod colonial in design and embody the most modern methods of construction. They are heated by automatic gas furnaces of the latest type. The dormitory group is conveniently located on the campus within a few minutes walk of the veterinary buildings. The ten bungalows are grouped about a rectangular lawn, transversed by a paved road, which leads into the campus from Route 20, the Post Road from Boston to New York.

Veterinary students may secure rooms in the dormitories for $150 per student for the school year of 36 weeks. The rental is payable in three installments of $50 each on the date set for the payment of the tuition. Since the number of dormitory rooms available is limited, applications from individual students, from those who wish to be roommates, or from groups of four who want to share a cottage should be filed as early as possible. In order for a room to be reserved the application must be accompanied by

an advanced payment of $25, which is refundable only at the discretion of the University.

The University provides the necessary furniture, heat, hot water, electricity and maid service for the dormitories. Student occupants have to provide themselves with sheets, pillow cases, blankets, linen, towels, and any furnishings in the way of decorations and rugs. In order that the appearance of the cottages may be uniform the University will provide curtains at cost for each student room.

For the convenience of students who are unable to secure accommodations in the University dormitories a list of approved rooming houses within walking distance of the campus is maintained. Room and board may be secured with private families at an average weekly cost of $11, and there are a number of conveniently located restaurants.

There are over 100 parking spaces on the campus for students who travel by automobile. Those who come to the University from other states must obey the Massachusetts law that prescribes that non-resident motorists who keep their cars in the state for more than 30 days must conform with the local requirements that all automobiles be covered by liability insurance.

Scholarship, Student-Aid, and Awards

Middlesex University has no scholarship endowment, but individual gifts make available each year a limited number of scholarships covering in full or in part tuition in any department of the University. Applicants for these scholarships must have very high scholastic standing and must be in actual need of financial assistance. Continuance of the scholarship from one year to another depends upon the recipient's moral, social, and scholastic qualifications. All scholarship applicants must have a personal interview with the President and with the Dean of the respective School.

There are also available a limited number of service scholarships covering the cost of tuition. Recipients of these scholarships must have proper qualifications to serve as laboratory assistants or otherwise.

Middlesex University has participated for several years in the federal student work program of the National Youth Administra-

tion. The purpose of this program is to provide employment of a socially useful nature for students who would otherwise be financially unable to continue their education. Students appointed to these positions are assigned to work under the supervision of various faculty members and are paid from $10.00 to $20.00 a month by the National Youth Administration. Middlesex University had a quota of 32 federal student work positions during the school year 1940-1941.

The Civil Aeronautics Authority of the United States government also assigned this year to Middlesex University a quota under its civilian pilot training program. Veterinary students are thus enabled, at government expense, to receive adequate ground school and flying instruction to qualify for a pilot's license. Only students under 25 years of age are eligible for federal student aid or for the government-sponsored flying course.

The following prizes are awarded annually to students who have distinguished themselves in certain phases of the veterinary course: the Dean's Prize of ten dollars to the student attaining the highest grades in all subjects; the Timothy P. White Prize of ten dollars to the freshman student with the highest grade in anatomy; the Leo Weiss Prize of ten dollars and a certificate, to the senior student attaining the highest grades in surgery and obstetrics; the Harris Warren Hantman Prize of ten dollars and a certificate, to the senior student considered by the faculty to be most proficient in clinical work; and the Barbara Joan Beck Prize of five dollars and a certificate to the sophomore student whose average is highest in pharmacy, pharmacology, and materia medica.

Requirements for Admission

The School of Veterinary Medicine is coeducational. The requirements for admission may be satisfied by graduation from a recognized college, or by the successful completion of a standard high school course and at least one year of college work amounting to 30 semester hours and including 6 semester hours each of English, Inorganic Chemistry and General Zoology. It is preferred that the candidate also present college credits in Physics, Mathematics, Botany, and Animal Husbandry.

The entrance requirements will be advanced to a minimum of two years of preveterinary college work beginning with the school year of 1942-43.

Candidates who are high school graduates, but who have not yet completed the required college work, may enroll in the Junior College for their preveterinary course. A place is reserved in the School of Veterinary Medicine for all those who successfully complete the preveterinary course at Middlesex University. Attention is directed to that part of the catalogue describing the two-year preveterinary course and the seven-year combined course leading to the degrees of Bachelor of Science and Doctor of Veterinary Medicine. A more detailed description of these courses is contained in the announcement of the Junior College.

Admission blanks may be obtained from the Registrar, Box 310, Waltham, and should be filed accompanied by a verification fee of $10.00 and a personal unmounted photograph, not less than 2½ by 3 inches in size. Applicants may arrange for a personal interview at the Waltham Campus, or at the Back Bay Building, 415 Newbury Street, Boston. In the case of candidates who come from outside of Massachusetts, a personal interview may be deferred until the opening week of the school year.

Applicants for admission to advanced standing must have the necessary qualifications for admission to the first-year class and must have satisfactorily completed one or more years of instruction in an approved School of Veterinary Medicine.

Special students may be admitted for selected courses if they provide evidence of satisfactory previous training; such students will not, however, be accepted as candidates for a degree.

Fees and Expenses

The cost of operating a veterinary school is very high. It is the policy of Middlesex University to charge as low a tuition fee as is consistent with the maintenance of proper educational standards.

The requirements of veterinary education are such that only a limited amount of outside work can be done by a student without seriously endangering his health or scholastic standing. For this reason prospective students are urged to postpone their matriculation until they are reasonably sure of their ability to meet the expenses of at least the first year of the veterinary course. If a student is obliged to drop out of school before the completion of the four-year course in order to earn sufficient funds for the continuance of his education, he may apply for a leave of absence, and

every effort will be made to make a place for him, should he make application for readmission within a reasonable time.

Fees are payable only by postal money order, certified check, express money order, and telegraph order. Remittances must be made by mail, and addressed to Middlesex University, Box 310, Waltham, Massachusetts.

The verification fee of ten dollars is payable by all new students and should accompany the filing of the application blank. This fee is not refundable under any circumstances, since each application involves secretarial work and receives the careful attention of the administrative staff. The verification fee is payable only once, and may be credited to the student's account, should he withdraw his application and then re-apply in a subsequent year.

The matriculation fee of twenty-five dollars is payable by each candidate for admission or re-admission to the School, when he is notified that his application has been acted upon favorably by the Committee on Admissions. No place will be reserved in a class until the accepted applicant has paid this matriculation fee. This fee is to reserve a place for the matriculant, and does not constitute part of the tuition.

The tuition fee of $300 is charged for each year of instruction in the School of Veterinary Medicine. This fee is payable in three equal installments on the dates indicated on the University Calendar. The tuition fee includes all laboratory charges except breakage, damage, and loss of apparatus. The tuition fee in the Preveterinary Course is $200 a year.

Any student whose installment of indebtedness to the School remains unpaid on the date fixed for final payment is deprived of the privileges of the School until he is reinstated. Reinstatement is obtained only by consent of the Board of Trustees, after payment of all indebtedness and a reinstatement fee of ten dollars. This charge of ten dollars is also payable, in the form of a late-registration fee, by all students who may be permitted to enroll in the School after the date set for payment of the first installment of the tuition. Tuition fees are not refundable.

The graduation fee of twenty-five dollars is payable by all successful candidates for the degree of Doctor of Veterinary Medicine, upon notification by the Bursar.

An examination fee of five dollars is charged for the first re-examination in any subject failed. Any subsequent or special ex-

amination, except in the case of illness, is subject to a charge of ten dollars.

Students required to withdraw from school for reasons of national defence will be granted a refund for any unearned tuition and a leave of absence until such time as they are able to return to school. No student who enlists or is drafted for military service will forfeit his standing.

A student may obtain one transcript of his scholastic record without charge. A clerical fee of one dollar is required for all additional transcripts.

First and second year students are required to possess satisfactory microscopes, fitted with low, high power, and oil-immersion objectives. The University has for sale a limited number of adequate microscopes at prices ranging from $95. to $115. each. New instruments cost about $150. Microscope lockers are available, but the University assumes no responsibility for the safety of instruments stored in any of its buildings.

Discipline and Dismissal

The University reserves the right to dismiss at any time a student whose deportment or scholarship is unsatisfactory, and to refund a proportional part of the current tuition fee he has paid. Admission to the University is in all cases for one year only, and readmission may be denied without explanation.

Attendance

Attendance during all class and laboratory exercises is required. Students who are absent, for any considerable time, on account of illness, or for other unavoidable reason, must present medical certificates or other satisfactory evidence in justification of their absence. A routine medical examination of each member of the entering class will be made at the beginning of the academic year.

Examinations and Promotion

Admission to the School is for one year only, and the Trustees reserve the right to dismiss a student at any time, or to refuse readmission or promotion to any student.

The veterinary course extends over a period of four years, and

the students are divided into four classes. Promotion from one class to another is based upon the satisfactory completion of the work of each year. A student will not be admitted to the final examinations in any course unless his class record, attendance, and laboratory work in that subject are satisfactory, and all of these elements will be considered in the determination of his final grade. Marks are given in all courses on a percentage basis, and a grade of seventy-five per cent is required to pass the course.

A student will not be allowed the privilege of final examinations, or be given his final grades in any course, until he has satisfied all of his financial obligations to the School.

The Committees on Promotion, consisting of Administrative Officers of the School and members of the Faculty, review the work of the student at the end of the first, second, and third years of the course. It is within the province of the Committees on Promotion to decide whether a student shall be promoted to the next class, shall be permitted to take further instruction in the Summer Session and examinations for the removal of conditions in September, shall be required to repeat the year's work, or shall be denied further registration in the School by reason of unsatisfactory scholarship.

In order to be promoted to the Third-Year Class, a student must have successfully passed all of the examinations in the work of the First Year, and no student shall be eligible for promotion to the Fourth-Year Class who has failed to pass satisfactorily in all the subjects of the previous years.

Students who fail to receive passing grades in the final examinations in June may, at the discretion of the Committees on Promotion, be given an opportunity to enroll in the Summer Session for further instruction in the subjects failed, and to take examinations for the removal of their conditions during the scheduled re-examination period in September before the opening of the school year. A fee of five dollars is charged for every such re-examination. The Committees on Promotion may permit re-examination in certain instances, and in courses that do not include laboratory work, without requiring the conditioned student to enroll for further instruction in preparation for such examinations. Students who are eligible for re-examinations must make written application at least two weeks before the examinations are scheduled, and remit the required fee of five dollars for each examination.

The mere attainment of passing grades does not insure promotion. The continuance in good standing of any student is also contingent upon his faithful adherence to the rules and regulations of the School and of affiliated institutions, as well as his observance in extra-curricular activities of a moral standard appropriate to one aspiring to the veterinary profession.

Any student who voluntarily withdraws from the School for proper reasons forfeits his standing, but may apply for readmission in a subsequent year. If not too long a time has elapsed, and if changes in the rules of promotion or in the curriculum do not render such an admission impractical, his application should receive favorable consideration.

Requirements for Graduation

Each candidate for the degree of Doctor of Veterinary Medicine must have fulfilled the following requirements:

1. He must be at least twenty-one years of age and of good moral character.
2. He must have satisfactorily completed the four-year course in separate years.
3. If he has been admitted to advanced standing from some other school he must have completed the last year at Middlesex University.
4. He must have received a passing grade in each subject of the curriculum and he must have presented a satisfactory record of clinical work.
5. He must have furnished a personal photograph and his signature for identification.
6. He must have satisfied all indebtedness to the University, including the graduation fee of $25.00.

Veterinary Medical Society

All students enrolled in the Veterinary School are eligible for membership in the Middlesex University Veterinary Medical Society. This organization has for its purpose the promotion of veterinary medicine, and its members meet periodically to listen to addresses by authorities in various phases of veterinary science, and to discuss topics of interest to the profession.

Prescribed Four-Year Course of Study

The course of instruction extends over four years. Each academic year is divided into two semesters of not less than sixteen weeks, exclusive of holidays and vacations. The basic veterinary sciences are studied in the first two years, by lectures, demonstrations, and laboratory exercises. The third and fourth years are devoted to practical clinical courses. Each course meets, in regard to its total hours, the standards set by the outstanding veterinary schools of the country.

First Year

First Semester		*Second Semester*	
Gross Anatomy	7(3-12)*	Gross Anatomy	8(4-12)
Histology	5(3- 6)	Histology	3(2- 3)
Types and Breeds	5(3- 0)	Dairy Judging	1(0- 3)
Organic Chemistry	4(2- 6)	Physiological Chemistry	4(3- 3)
Medical Botany	1(0- 3)	Zootechnics	1(0- 3)

Second Year

Comparative Physiology	6(4- 6)	Materia Medica	3(3- 0)
Pathogenic Bacteriology	6(4- 6)	Pharmacology	1(0- 3)
Feeds and Feeding	3(3- 0)	Pathology I	5(3- 6)
Parasitology	3(2- 3)	Poultry Husbandry	2(1- 3)
		Milk and Milk Products	3(2- 3)
		Pharmacy	1(0- 3)
		Immunology	1(0- 3)

Third Year

Surgery I	5(5- 0)	Surgery II	5(5- 0)
Pathology I	4(2- 6)	Pathology III	2(1- 3)
Clinic I	2(0- 6)	Clinic II	2(0- 6)
Surgical Anatomy	2(0- 6)	Obstetrics I	3(3- 0)
Therapeutics	2(2- 0)	Diseases of Sm. Animals	4(4- 0)
		Diseases of Lg. Animals	5(5- 0)

Fourth Year

Clinic III	7(0-21)	Clinic IV	7(0-21)
Diseases of Sm. Animals	2(2- 0)	Meat Inspection	3(3- 0)
Diseases of Lg. Animals	5(5- 0)	Infectious Dis. of Lg. Animals	5(5- 0)
Obstetrics and Breeding II	2(2- 0)	Poultry Diseases	2(2- 0)
Pathology IV	3(3- 0)	Medical Economics and Law	2(2- 0)
		Surgical Exercises	2(0- 6)

*Semester hours (lecture hours—laboratory hours).

Description of Courses

All courses are offered under the following departments of the School of Veterinary Medicine.

Anatomy	Pathology
Chemistry	Animal Husbandry
Bacteriology	Medicine
Physiology	Surgery
Pharmacology	Obstetrics

Chemistry

Organic Chemistry. Lectures and laboratory. Organic compounds of biological importance. General reactions of aliphatic and aromatic series.

Physiological Chemistry. Lectures and laboratory. Chemistry of digestion, circulation, and metabolism of the animal body; and analysis of foodstuffs.

Zoology and Medical Botany

Lectures and laboratory work covering a review of Animal Biology, and a consideration of poisonous plants, grasses, clovers, cereals, and economic plants eaten by animals. Classification, distribution, identification, control, elimination, structure, behavior, and development.

Animal Husbandry

Livestock Production. Types, breeds, judging, management, and marketing of livestock; cattle, horses, swine, and sheep.

Animal Feeding. Principles of feeding, nutrition, nutritional diseases, digestion, calculation of rations of farm animals; soil fertility and classification of feeds.

Dairy Industry. Lectures and laboratory work in the model dairy; composition and properties of milk, selection of dairy cows, dairy inspection.

Genetics. Heredity and the breeding of livestock.

Poultry Husbandry. Practical instruction to demonstrate the care of poultry, and the study of scientific methods in egg production.

Zootechnics. The origin, history, development, and identification of the registered breeds of dogs. Breeding, care, and feeding of dogs; and kennel management.

Veterinary Anatomy

Anatomy. Lectures, laboratory, and dissection. The structure of domestic animals; the horse, the dog, and other animals are dissected simultaneously.

Applied Anatomy. Dissection and study of structures involved in the usual surgical operations.

Histology. The minute structure and composition of the tissues and organs of domestic animals. Lectures and microphotographic demonstration; microscopic study of slides in the laboratory.

Histological Technique. The preparation of slides for microscopic examination; fixing, hardening, staining, embedding, sectioning, and mounting of specimens; frozen section technique.

Embryology. Lectures and laboratory. The prenatal development of the various domestic animals; fetal membranes, malformations, growth.

Bacteriology

Pathogenic Bacteriology. Lectures and laboratory. Morphology, classification, and characteristics of pathogenic bacteria and protozoa that are pathogenic for domestic animals and man. Preparation of culture media, principles of sterilization, and the microscopic identification of bacteria.

Immunology and Serology. The theories of immunity and the methods of immunization; biological preparations used in veterinary medicine; the preparation, purification, and standardization of vaccines and antitoxins.

Dairy Bacteriology. The bacterial flora of milk and milk products; the effects of the action of bacteria on cheese and butter; milk in relation to diseases of the cow.

Physiology and Pharmacology

Physiology. Lectures and laboratory. Functions of animal organs and systems; biophysical principles; functional variations.

Pharmacology. Lectures and laboratory. The physiological action of drugs; preparation of drugs.

Materia Medica. Lectures and laboratory. Official and other important drugs; preparation, origin, properties, action and doses; toxicology and antidotes.

Pharmacy. The writing and compounding of prescriptions, and the preparation of pharmaceutical products.

Therapeutics. The use of drugs in the treatment of animal diseases encountered in general practice.

Pathology and Parasitology

Pathology I. Lectures, quizzes and laboratory. Changes in structure and function in diseased conditions; causes and effects of disease.

Pathology II. Specific pathological processes occurring in the various organs of domesticated animals.

Pathology III. Tumors and neoplasms of domesticated animals.

Poultry Pathology. The etiology, course, and termination of fowl afflictions; immunity of fowl, congenital and inherited diseases.

Meat Hygiene. A study of macroscopic lesions and pathological changes in diseased food-producing animals. Federal, state, and municipal regulations governing sanitary laws, inspection of animals before and after slaughter, and the various methods of preservation and adulteration. Rules governing healthful meat production. Students make routine inspection tours to abbatoirs.

Pathology IV. Postmortem diagnosis and technique. The student is required to prepare reports of the cases presented in the autopsy room.

Clinical Pathology. The examination of pathological material. The processes of hematological, bacteriological, serological, and parasitological diagnosis.

Pathological Technique. Laboratory instruction in the preparation of gross and microscopic specimens for diagnosis and for preservation.

Parasitology. The important external and internal parasites of domestic animals. The treatment and control of diseased conditions caused by parasites.

Medicine

Physical Diagnosis. Lectures and demonstrations; methods of diagnosis; symptoms of disease in the various organs.

Clinical Laboratory Practice. Blood and urine chemistry; parasitology; hematology; routine examinations.

Large-Animal Medicine. Principles and practice; diagnosis and treatment of diseases of the horse, the cow, the sheep, the pig, and the goat. Clinical service in the Animal Hospital and dispensaries.

Small-Animal Medicine. Treatment and prevention of diseases in small animals, including dogs, cats, and birds. Practical training under clinical instructors in the Small-Animal Hospital and in affiliated clinics.

Poultry Diseases. A review of the anatomy of the fowl, and a consideration of the diseases and parasitic infestations of poultry; sanitation, hygiene, and minor surgery.

Surgery and Obstetrics

Surgery I. Principles of surgery; asepsis, anaesthesia, wounds, infections, bone disease; the care and use of instruments.

Surgery II. Major and minor operations in veterinary medicine and dentistry; control of hemorrhage; stitches, materials, knots, and bandaging; fractures and dislocations; convalescent care. Clinical instruction in the operating room of the Animal Hospital.

Surgical Exercises. Surgical operations performed on the cadaver.

Restraint. Methods of restraint to be applied before the administration of medication or surgical procedures under field and hospital conditions.

Obstetrics. The physiology of reproduction, artificial insemination, sterility, diseases of the genital organs. Care of pregnant animals, normal and abnormal deliveries, care of the new-born.

Lameness and Soundness. Podology, horseshoeing, demonstrations at the forge.

Medical Economics

Jurisprudence. Ethics, business methods, government regulations, meat inspection, quarantine rules, game laws, purchase and sale of animals, examination of the soundness of animals, and the legal principles of contracts, torts, property rights, and of the practice of Veterinary Medicine. Licensure, and the legal obligations of the practicing veterinarian.

Fur-Bearing Animals

Treatment of Fur-Bearing Animals. Care in health and disease; nutrition, breeding, pelts. An elective course.
Fox Farming. Lectures and field trips. Care and feeding; problems in heredity; grading of hides; pathology and therapeutics. An elective course.

PREVETERINARY COURSES

The Junior College offers a two-year preveterinary course designed to fulfill the requirements for admission to the School of Veterinary Medicine, and the University reserves a place in the first-year class of the School of Veterinary Medicine for all applicants who successfully complete the preveterinary course in Middlesex College.

The two-year preveterinary course covers seventy semester hours, and includes the following subjects:—

Freshman Year

Subject	*Semester Hours*
English (composition)	6
Biology (botany & zoology)	8
Chemistry (inorganic)	8
French (language)	6
Animal Husbandry (types & breeds)	4
Mathematics (algebra)	4

Sophomore Year

Subject	*Semester Hours*
English (literature)	6
Biology (comparative anatomy)	6
Chemistry (organic)	8
Physics (experimental)	8
History (American)	6

The Seven-Year Combined College and Veterinary Course

The College of Arts and Sciences, in conjunction with the School of Veterinary Medicine, offers a seven-year course leading to the degrees of Bachelor of Science and Doctor of Veterinary Medicine. The first three years are spent in the College and devoted to preveterinary and cultural study, and the degree of Bachelor of Science is conferred upon the subsequent completion of the first year in the School of Veterinary Medicine.

The three-year preveterinary course includes the following subjects:

Freshman Year

Subject	*Semester Hours*
English (composition)	6
Chemistry (inorganic)	8
Biology (botany & zoology)	8
French (language)	6
Animal Husbandry (types & breeds)	4
Mathematics (algebra)	4

Sophomore Year

Subject	*Semester Hours*
English (literature)	6
Biology (comparative anatomy)	6
Physics (experimental)	8
Chemistry (organic)	8
History (American)	6

Junior Year

Subject	*Semester Hours*
English (drama)	4
Animal Husbandry (feeds & feeding)	6
Chemistry (qualitative analysis)	6
Psychology (elementary)	6
Government (constitutional)	4
Anthropology (general)	6

STUDENTS 1940-1941

Candidates for the Degree of Doctor of Veterinary Medicine

Third-Year Class

Joseph Appleby . . . . Yonkers, N. Y.
Middlesex University

Bernard Aronson . . . Huntington Station, N. Y.
Washington State College.

Edward Arthur Blake . . Gardner, Mass.
Middlesex University

Elihu Bond . . . . . Mt. Vernon, N. Y.
Columbia University

John Gabriel Donnellan . . Boston, Mass.
Middlesex University

Ephraim Goldrosen . . . New York, N. Y.
Clark University
College of the City of New York

Harold Seymour Kalter . . Long Beach, N. Y.
New York University

Julian Michael Karasoff . . New Hampton, N. Y.
Brooklyn College

Max Terry Mills . . . Gloversville, N. Y.
Cornell University

Donald Omar Mowers . . Lebanon, N. H.
Middlesex University

Robert Molyneaux Nutter . Berwyn, Pa.
University of Pennsylvania

Leonard Albert Schulhof . New York, N. Y.
Fordham University

Nathan Siegel . . . . Bayonne, N. J.
New York University

Saul Soloman Spitzberg . . New York, N. Y.
B.S., New York University

Burton David Whitestone . Huntington, N. Y.
Pennsylvania State College

Frank Wallace Zak . . . Turners Falls, Mass.
Michigan State College

Second-Year Class

Isaac Abrich . . . . Providence, R. I.
Providence College
Iowa State College

Frank Wilbur Bates . . . Walpole, Mass.
Southeast Missouri State Teachers College

Joseph Beck . . . . Flushing, N. Y.
Ph.G., Brooklyn College of Pharmacy
St. John's University

Charles Henry Belford . . Laconia, N. H.
Middlesex University

Samuel Chay Bloom . . . Boston, Mass.
Santa Monica Junior College

Francis John Carniglia . . Windsor Locks, Conn.
Middlesex University

Sherman Lowell Coates . . Fitchburg, Mass.
Middlesex University

Robert Hanaan Cousin . . New York, N. Y.
St. John's University
Middlesex University

Arthur Burnside Cragin . . Wakefield, Mass.
Middlesex University

Richard Eugene Cugnasca . Boston, Mass.
Tufts College

Harold Samuel Dulman . . Yonkers, N. Y.
St. John's University
Middlesex University

Richard Channing Dye Middlesex University	Gloversville, N. Y.
George Shelor Fisher Alabama Polytechnic Institute	Waltham, Mass.
Albert Galen Gettysburg College	Atlantic City, N. J.
Seymour Glasofer Iowa State College	Newark, N. J.
William Louis Govone Miami University	Oxford, Ohio
Lawrence Ira Halpert New York University	Brooklyn, N. Y.
Theodore William Harris B.S., St. John's University	Brooklyn, N. Y.
James Hayward Leach Villanova College	Wayne, Pa.
Marvin Weisman Leslie Kansas State College	Passaic, N. J.
William Levy Wagner College	Bayonne, N. J.
Robert Gerard Lynch Cornell University	Ballston Spa, N. Y.
Arthur James McCarthy Middlesex University	Framingham, Mass.
John Herbert McCaslin St. Bonaventure's College	Osceola, Pa.
James Patrick McEnelly Middlesex University	Marlboro, Mass.
Jane Munlex O'Brien Cornell University	Taunton, Mass.
Michael John Polino Long Island University	Brooklyn, N. Y.

Harold Polinsky . . . New York, N. Y.
Middlesex University

John Frederick Pomidor . . Hawthorne, N. J.
Paterson State Teachers' College

Paul Hartzell Richards . . Bangor, Pa.
Iowa State College

Nathan Samberg . . . New York, N. Y.
College of the City of New York

Joseph Louis Schulhof . . New York, N. Y.
Middlesex University

Edward Gerald Slade . . Framingham, Mass.
Middlesex University

Earl Vincent Smith . . . Carlisle, Pa.
Temple University
University of Pennsylvania

Sidney Stern . . . . . New York, N. Y.
College of the City of New York

Edward Marc Umans . . . Arverne, N. Y.
Cornell University

LeRoy Sanders Weinberg . . Philadelphia, Pa.
University of Pennsylvania

Raymond Weiner . . . Philadelphia, Pa.
Villanova College

Robert Foster Wignall . . Billerica, Mass.
Middlesex University

Jacob Wittenberg . . . Brewster, N. Y.
Alfred University

Arnold Jerome Zarett . . Edgemere, N. Y.
Wayne University

First-Year Class

Howard Clinton Adams . . Worcester, Mass.
Clark University

Cyril James Allen . . . Newport, R. I.
Middlesex University

Benjamin Barker . . . Boston, Mass.
Middlesex University

Gabriel Belinsky . . . Pawtucket, R. I.
Middlesex University

Myron Bernstein . . . Far Rockaway, N. Y.
Pennsylvania State College

Lawrence Jay Bonn . . . New York, N. Y.
St. John's University

Thomas Boria . . . . Wilkinsonville, Mass.
Clark University

Waldo Walker Brooks, Jr. . Berlin, Mass.
Middlesex University

Raymond Vincent Burns . . Bayonne, N. J.
New York University
Ohio State University

Matthew Carr . . . . Torrington, Conn.
The Municipal University of Omaha

William Harley Cline . . Fanwood, N. J.
Union Junior College

Martin John Clougherty . . Winthrop, Mass.
Middlesex University

Herbert Jay Cobbs . . . Waltham, Mass.
Pratt Institute
Middlesex University

Herbert Cohen . . . . Mt. Vernon, N. Y.
New York University

Saul Howard Cohen . . . Brooklyn, N. Y.
State College of Washington

Glen Elwood Downing . . Waukesha, Wis.
Ph.B., Carroll College

Wallace Robert Eagle . . Cameron, Mo.
Colorado State College

Charles Philip Engelberg Cornell University	Brooklyn, N. Y.
Alvin Cary Epstein St. John's University	Brooklyn, N. Y.
Frederick Calvin Fillmore Middlesex University	Somerville, Mass.
Robert Mose Fingerman St. John's University	New York, N. Y.
Martin Fish New York University Middlesex University	Mt. Vernon, N. Y.
Harry Gorfein College of the City of New York	New York, N. Y.
Sanford Myron Greene Ohio State University	Cleveland, Ohio
Melvin Nathaniel Grove Clemson Agricultural College	Brooklyn, N. Y.
Ralph Grusmark Middlesex University	New York, N. Y.
Albert John Healey Middlesex University	Lexington, Mass.
William Sample Hicks Vermont University	Burlington, Vt.
Irving Lewis Kaminetsky St. John's University	Brooklyn, N. Y.
Norman Ketover Brooklyn College	Brooklyn, N. Y.
Leonard Kohn Ohio State University	Cleveland, Ohio
Arthur Edward Lager St. John's University	New York, N. Y.
Milton LeRoy Middlesex University	Hartford, Conn.

Louis Levine Cornell University	Brooklyn, N. Y.
Morris Murray Levine A.B., Brooklyn College	Lake Ronkonkoma, N. Y.
James Lieberman Cornell University	Richmond Hill, N. Y.
Harold French Linder State College of Washington	Caldwell, N. J.
Robert Lipshutz Ohio State University	Richmond Hill, N. Y.
John Robert Lowe Middlesex University	Salem, Mass.
Lawrence Ashley MacLoed Middlesex University	Reading, Mass.
Frank Hewitt Madden Syracuse University	Syracuse, N. Y.
John Mason Cornell University	Baltimore, Md.
Norman Daniel McGrath Middlesex University	Medford, Mass.
Richard Francis Merkert Middlesex University	Jamaica, N. Y.
Victor Boris Merkin New York University	New York, N. Y.
Ruth Elliott Miller Middlesex University	Paterson, N. J.
Pierre Phillip Morand Middlesex University	Holbrook, Mass.
James Edward Mottau Middlesex University	Brockton, Mass.
Hyman Newman University of Pennsylvania Pennsylvania State College	Philadelphia, Pa.

Seymour Jay Ornstein . . New York, N. Y.
Kansas State College

Russell Herbert Pierson . . East Haven, Conn.
Kansas State College

Melvin Rabatsky . . . Boston, Mass.
Middlesex University

Arthur Campbell Richardson . Boston, Mass.
B.S., Agricultural and Technical College of North Carolina

William Charles Roberts . . Portland, Pa.
Middlesex University

Morris Aaron Shiffman . . New York, N. Y.
College of the City of New York
Middlesex University

Lewis Lasher Smith . . . Mechanicville, N. Y.
Green Mountain Junior College

Gordon Hadley Southworth . Lynn, Mass.
Middlesex University
State College of Washington

Stefan Michael Stefanie . . Danbury, Conn.
Michigan State College

Milton Tatelbaim . . . Boston, Mass.
Middlesex University

Bernard Wilbur Waxman . . New York, N. Y.
New York University
Michigan State College

Irwin Warren Wayne . . New York, N. Y.
B.S., Kansas State College

Samuel Winokur . . . Boston, Mass.
Iowa State College

George Stanley Wood . . Waltham, Mass.
Middlesex University

David Yellin . . . . Putnam, Conn.
Middlesex University

PREVETERINARY CLASS

Candidates for Admission to the School of Veterinary Medicine

Richard Sanford Archer . . Boston, Mass.
English High School

Richard Bolton Bartlett . . Holliston, Mass.
Holliston High School
Dean Academy

Norman Breslauer . . . New York, N. Y.
DeWitt Clinton High School

Robert William Britton . . Whitinsville, Mass.
Northbridge High School

Warren Chamberlain Bushway Stoneham, Mass.
Stoneham High School

Smith Edwin Cook . . . Scotia, N. Y.
Scotia High School

John Walter Crotty . . . Marlboro, Mass.
Marlboro High School

Charles Patrick Danna . . Woburn, Mass.
Woburn High School

James Craig DeWitt . . . Arlington, Mass.
Arlington High School

Joseph Henry Dodson . . Lawrence, Mass.
Lawrence High School

Richard Vincent Donnellan . Boston, Mass.
English High School
Berkeley Preparatory School

Raymond Curtis Doten . . Brockton, Mass.
Brockton High School

Joseph Colombo Fabbricotti . Norfolk, Mass.
Norfolk County Agricultural School

George Peter Faddoul . . Marlboro, Mass.
Marlboro High School

Sidney Howard Finestone . . New York, N. Y.
James Monroe High School

Gilbert Charles Freeman . . Beverly, Mass.
Essex County Agricultural School

Winslow Jones Fuller . . Medford, Mass.
Medford High School

Harry Alden Gamsby . . . Gronthan, N. H.
Austin Cate Academy

Harold Bernard Gursha . . Brockton, Mass.
Brockton High School

Harold Judson Hill . . . Hudson, N. H.
Nashua High School
University of New Hampshire

Richard Lawrence Hill . . Littleton, N. H.
Vermont Academy

Warren Bradleigh Hoyrup . East Hampton, Conn.
East Hampton High School

David Kaufman . . . . Hartford, Conn.
Thomas Snell Weaver High School
Hartford Federal College

Sely Kovitch . . . . Providence, R. I.
Foxboro High School

Leon Aaron Lecht . . . Providence, R. I.
Hope High School

Rodney Nelson Magargal . . Bethel, Conn.
Howley High School

Maxwell Martus . . . Malden, Mass.
Malden High School

John Francis McGauley . . Leicester, Mass.
St. John's High School

Lawrence Milman . . . Brooklyn, N. Y.
Abraham Lincoln High School

Francis James Mulhern . . Wilmington, Del.
Wilmington High School

Earle Edward Murphy, Jr. . New London, Conn.
Chapman Technical High School

Seymour David Novich . . Yonkers, N. Y.
Yonkers High School

Levi Edward Parsons, Jr. . . Danbury, Conn.
Litchfield High School

Algerd William Ramaika . . Haverhill, Mass.
Haverhill High School

Jason Allen Raymond . . Brookline, Mass.
Brookline High School
University of Alabama

Jack Bernard Robinson . . Brookline, Mass.
Brookline High School

Scott David Rowden . . . Wells River, N. H.
Wells River High School
University of Vermont

Elwood LeRoy Scrivens . . Boston, Mass.
English High School
Lincoln Preparatory School

Robert Gerard Slade . . . Framingham, Mass.
Framingham High School
Suffield Academy

Raymond Francis Stratton . Long Island, N. Y.
Brooklyn Preparatory School
Oglethorpe University
Lehigh College

Benjamin Weiner . . . Malden, Mass.
Malden High School

Donald Bernard Winters . . New Haven, Conn.
Hillhouse High School

Edward Angelo Zullo . . Natick, Mass.
Natick High School

Distribution by Colleges

Agricultural and Technical College of North Carolina	1	New Hampshire University	1
Alabama Polytechnic Institute	2	New York University	9
Alabama, University of	1	Ohio State University	4
Alfred University	1	Paterson State Teachers College	1
Brooklyn College	4	Pennsylvania State College	3
Carroll College	1	Pennsylvania, University of	4
Clark College	3	Pratt Institute	1
Clemson Agricultural College	1	Providence College	1
College of the City of New York	5	Santa Monica Junior College	1
Colorado State College	1	Southeast Missouri State Teachers College	1
Columbia University	1	St. Bonaventure's College	1
Cornell University	7	St. John's University	9
Fordham University	1	Syracuse University	1
Gettysburg College	1	Temple University	1
Green Mountain Junior College	1	Tufts College	1
Iowa State College	4	Union Junior College	1
Kansas State College	4	Vermont University	1
Long Island University	1	Villanova College	2
Miami University	1	Wagner College	1
Michigan State College	3	Washington, State College of	3
Middlesex University	41	Wayne University	1
Municipal University of Omaha	1		

Geographical Distribution of Students

Connecticut	12	New Jersey	10
Delaware	1	New York	58
Maine	1	Ohio	3
Maryland	1	Pennsylvania	10
Massachusetts	57	Rhode Island	5
Missouri	1	Vermont	1
New Hampshire	6	Wisconsin	1

Summary

Candidates for the Degree of Doctor Veterinary Medicine

Preveterinary Class	43
Freshman Class	64
Sophomore Class	44
Junior Class	16
	167

GIFTS AND ENDOWMENT

Middlesex University is authorized by the Massachusetts Legislature to receive and hold donations, legacies, and bequests of real and personal property to an extent not to exceed five million dollars, and to use such property or the income therefrom for its general educational purposes.

The School of Veterinary Medicine and the Animal Hospital are now in immediate need of substantial endowment funds. The Trustees will be glad to receive specific gifts of books, equipment, or material for the use of any department of the University; and would be very grateful for any donation to the endowment of the University.

Bequests may be made in the following form:

I give to the Trustees of Middlesex University, an educational institution incorporated under the laws of the Commonwealth of Massachusetts, the sum of.....dollars, to be applied to the general purposes of the University.

MIDDLESEX UNIVERSITY

JUNIOR COLLEGE
Preprofessional Courses, Arts and Sciences

COLLEGE OF ARTS AND SCIENCES
A.B. and B.S. Degrees

SCHOOL OF MEDICINE
M.D. Degree

SCHOOL OF VETERINARY MEDICINE
D.V.M. Degree

SCHOOL OF PODIATRY
Three-year Didactic and Clinical Course

SCHOOL OF PHARMACY
Two-year Comprehensive Course

WALTHAM — MASSACHUSETTS — BOSTON